

ECW5211-L(ID) INDOOR ACCESS POINT



INTRODUCTION

The ECW5211-L is an enterprise-grade, concurrent dual-band 802.11ac Wave 2 indoor access point, designed specifically for high-density Wi-Fi environments. The ECW5211-L features two 2x2:2 MU-MIMO radios that can each transmit data to multiple clients simultaneously, and together have a combined data rate of up to 1.2 Gbps.

When used with an Edgecore controller, additional value-added applications such as bandwidth control, user authentication, and captive portals can be used to provide an ideal solution for all types of businesses. In addition, one AP can be associated to two controllers for redundancy purpose.

HIGHLIGHTS

WI-FI

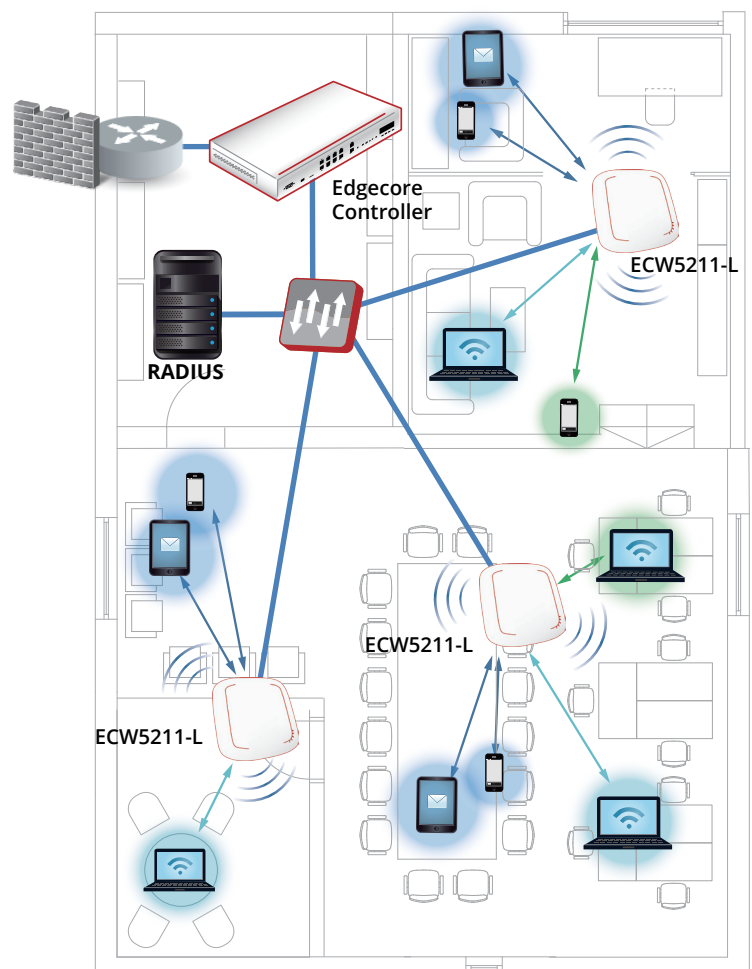
- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

PHYSICAL

- Wall and ceiling mountable
- High Density Wi-Fi deployment
- 802.3af Power over Ethernet (PoE)
- Gigabit LAN Ethernet port

MANAGEMENT WITH CONTROLLER

- Captive Portal & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- User-based Access Management
 - Bandwidth Control
 - Firewall Policies
 - Routing Policies



SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> DC Input: 12V / 1.0A (Power adapter optional) PoE: 802.3af compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> 14.7 cm (L) x 14.7 cm (W) x 3.5 cm (H)
Weight	<ul style="list-style-type: none"> 0.36 kg (0.78 lbs)
Interfaces	<ul style="list-style-type: none"> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 USB: 1 x USB 2.0 Port
LED Indicator	<ul style="list-style-type: none"> Power / 2.4G-WiFi / 5G-WiFi / Eth1 / Eth2
Buttons	<ul style="list-style-type: none"> Restart / Reset
Environmental Conditions	<ul style="list-style-type: none"> Operating Temperature: 0°C (32°F) to 50°C (122°F) Operating Humidity: 5% to 95% non-condensing
Power Consumption	<ul style="list-style-type: none"> 9.0W max.
Antenna	<ul style="list-style-type: none"> Type: 2 x Built-in PIFA (2 x 2.4 GHz & 5 GHz) Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz)
Mounting	<ul style="list-style-type: none"> Wall/Ceiling mount (Mounting kit included) Anti-theft: 1 Kensington Lock hole on the metal part of housing
WI-FI	
Standards	<ul style="list-style-type: none"> 802.11a/b/g/n/ac ; Wave 2 Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	<ul style="list-style-type: none"> 802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5 – 144 Mbps (20 MHz) 802.11n: 13.5 – 300 Mbps (40 MHz) 802.11ac: 6.5 – 173.4 Mbps (20 MHz) 802.11ac: 13.5 – 400 Mbps (40 MHz) 802.11ac: 29.3 – 866.6 Mbps (80 MHz)
Radio Chains	<ul style="list-style-type: none"> 2 x 2
Spatial Streams	<ul style="list-style-type: none"> 2; MU-MIMO support
RF Output Power*1	<ul style="list-style-type: none"> 2.4 GHz: Up to 21 dBm*2 5 GHz: Up to 20 dBm*2
Channelization	<ul style="list-style-type: none"> 20 MHz 40 MHz 80 MHz
Frequency Band	<ul style="list-style-type: none"> 2400 – 2483.5 MHz 5150 – 5250 MHz 5250 – 5350 MHz 5725 – 5825 MHz
Max Bandwidth	<ul style="list-style-type: none"> 2400 – 2483.5 MHz : ≤ 40 MHz 5150 – 5250 MHz : ≤ 80 MHz 5250 – 5350 MHz : ≤ 80 MHz 5725 – 5825 MHz : ≤ 80 MHz
Operating Channels	<ul style="list-style-type: none"> 2.4 GHz: 1 – 13 (Indonesia) 5 GHz: 36 – 165 (Indonesia)
ESSIDs	<ul style="list-style-type: none"> Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> Wi-Fi CERTIFIED (Wi-Fi Alliance), FCC (United States), CE (Europe)

*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain

*2: Maximum power is limited by local regulatory requirements

PERFORMANCE

Physical Data Rate	<ul style="list-style-type: none"> Up to 300 Mbps (2.4 GHz) Up to 867 Mbps (5 GHz)
Concurrent Users	<ul style="list-style-type: none"> Up to 256 (128 on 2.4 GHz, 128 on 5 GHz)

QUALITY OF SERVICE

Wireless QoS (802.11e/WMM)
DSCP (802.1p)
Airtime Fairness
Band Steering
Multicast to Unicast Conversion
Optimal Client Filtering

SECURITY

Wireless Security	<ul style="list-style-type: none"> 802.11i WEP WPA/WPA2 Mixed (TKIP/AES Mixed) WPA2-Personal (AES) WPA2-Enterprise (AES)
32 VLANs in 802.1Q (VLAN ID 1~4000)	
Station Isolation	
DHCP Snooping	
Layer-2 Firewall	

MANAGEMENT

Deployment	<ul style="list-style-type: none"> Standalone Tunneled management by Controller IPv4 & IPv6 compatible LLDP
Configuration	<ul style="list-style-type: none"> Web User Interface (HTTP/HTTPS) SNMP v1, v2c, v3

MOBILITY/ROAMING

Layer 2/Layer 3 Fast Roaming
Hotspot 2.0

RECEIVE SENSITIVITY

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-95
	11 Mbps	-86
802.11a	6 Mbps	-87
	54 Mbps	-70
802.11g	6 Mbps	-89
	54 Mbps	-72
802.11n (HT20)	MCS0	-88
	MCS7	-67
	MCS8	-88
	MCS15	-67
802.11n (HT40)	MCS0	-85
	MCS7	-66
	MCS8	-85
	MCS15	-66
802.11ac (VHT20)	MCS0	-86
	MCS8	-64
802.11ac (VHT40)	MCS0	-83
	MCS9	-61
802.11ac (VHT80)	MCS0	-81
	MCS9	-57